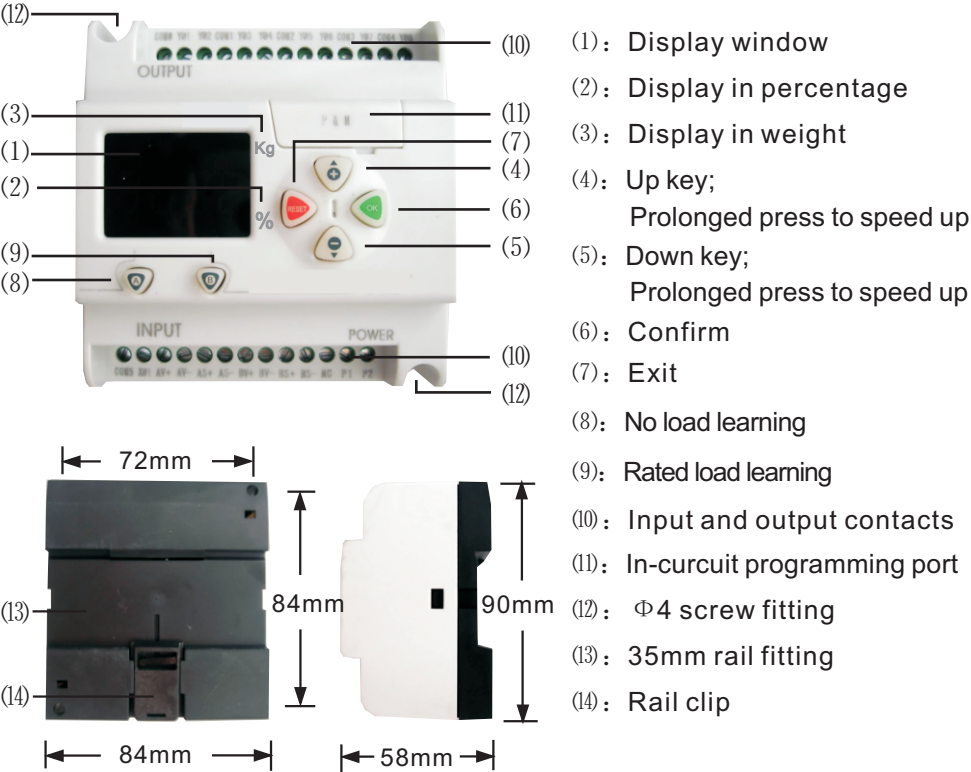


OMS680 Lifting load limiter

User's Manual

1. Appearance and installation dimensions of the main controller



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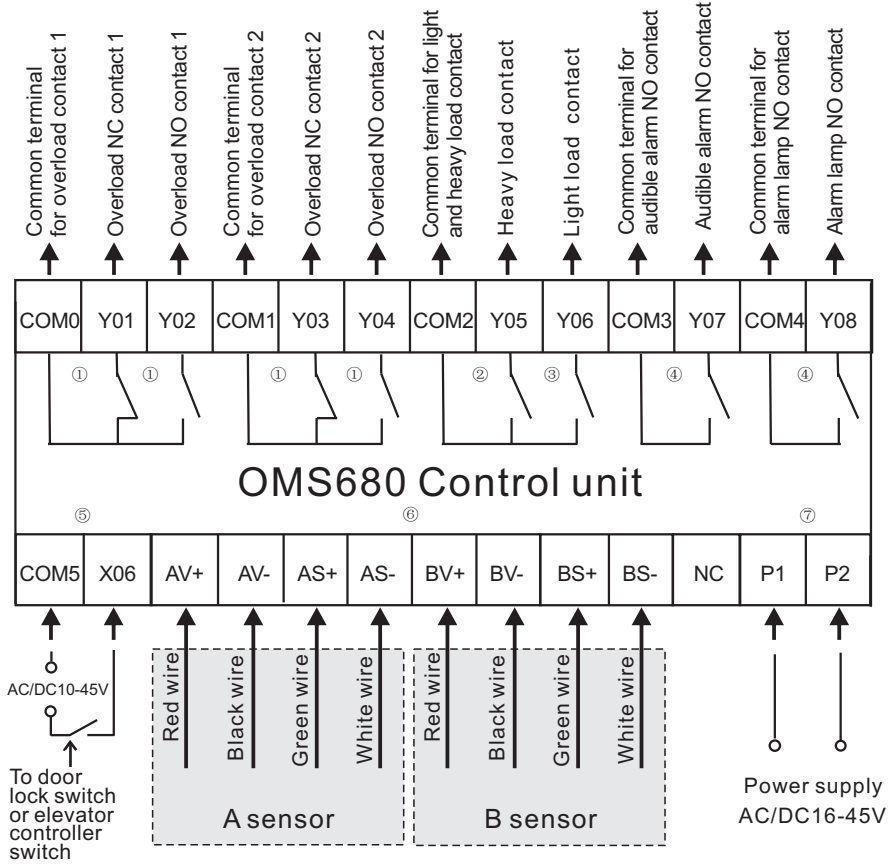
4. The display codes and their meanings

Codes	Explanation	States
CC00	Twinkle for code entrance;	Code entrance
----	Twinkle for initialization;	Initialization state
P08	Parameter setting;	Initialization state
01	Value of Pn (n = 01-16) ;	Initialization state
1080	Weight: 1080 Kilogram;	Measuring state
101	Percentage display of 101%;	Measuring state
LF	Overload;	Measuring state
PL	Ready for no load learning;	Initialization state
00	No load learning complete;	Initialization state
PH	Ready for rated load learning;	Initialization state
100	Rated load learning complete;	Initialization state
E0	Error code;	Initialization state

5. The menu structure and parameter setting

Parameter	Meanings	Parameter range	Default value
P01	Overload range Setting;	00~20 – Indicates 0~20%, overload relay acts when measuring load exceeds (1+P01%) rated load;	10
P02	Bouncing sensitivity setting;	00~10 – The sensitivity decreases with the value of P02 increasing;	05
P03	Output lock signal setting;	00 – Signal lock is effective when power on; 01– Signal lock is effective when power off;	00
P04	Delay time setting for overload relay release;	00~05 – Indicates 0~5 seconds;	02

2. Interfaces of the main controller



NOTES:

- ①: Acts when measured weight  $\geq$  rated load  $\times (1+P01\%)$ ;  
②: Acts when rated load  $\times P08\% \leq$  measured weight  $\leq$  rated load  $\times (1+P01\%)$ ;  
③: Acts when  $0\% \leq$  measured weight  $\leq$  rated load  $\times P07\%$ ;  
④: Acts when measured weight  $\geq$  rated load  $\times 90\%$ ;  
⑤: If X06 lock signal is effective, the relay output keeps the same even if the load changes;  
X06 signal is enabled or not based on the setting of parameter P03;  
Input voltage :AC/DC10V~45V ;( No connection if no special requirements.)  
⑥: Contacts for sensors have two groups, namely A and B. If only one sensor is used, it can be connected to either one of them. Contact v+, v-, s+, s- shall be connected to red wire, black wire, green wire and white wire on sensor respectively. avoid placing the connection wires in the same wiring groove with 110V or 220V power supply wires;  
⑦: Please make sure the working voltage is AC/DC16V-45V before normal operation;

Parameter	Meanings	Parameter range	Default value
P05	Mode setting for rated load learning;	00 – Learning with full weight load; 03 – Learning with no weight load; 04 – Learning with any known weight load;	00
P06	Spare		00
P07	Light load range setting;	05~75 – Indicate 5~75%, light load relay acts when measuring load is in range of 0% to P07% rated load;	05
P08	Heavy load range setting;	90~99 – Indicate 90~99%, heavy load relay acts when measuring load is in range of P08% to (1+P01%) rated load;	90
P09	Light load contact setting;	00 – Contact closes when in light load range; 01– Contact releases when in light load range;	00
P10	heavy load contact setting;	00 – Contact closes when in heavy load range; 01– Contact releases when in heavy load range;	00
P11	Rope and sheave ratio setting; (only good for rated load learning with no load)	01~10 – Indicates the ratio of 1/1~1/10, proportion the force sensor carried to actual load;	01
P12	Sensor's correction code or any known weight;	0000~9500 – Input correction code during rate load learning with no load or input weight during rated load learning with known weight in KG ;	0000
P13	Rated load value setting ;	0000~9500 – Input rated load in KG; In rated load learning with full weight, 0000 can be used to treat the full weight as rated load;	0000
P14	Buzzer switch	00 – Buzzer close; 01– Buzzer open;	01
P15	Spare		00
P16	Version		

## 7. Procedures for device initialization

- ★ Initialization with full weight load
- ★ Initialization with no weight load
- ★ Initialization with any known weight load

Other fast modification:

- ## 8. Flow chart for device initialization

